



June 19, 2009

Division of Water
KPDES Branch
Attn: Mr. Jory Becker
200 Fair Oaks Lane
Frankfort, KY 40601

Subject: AAPER Alcohol and Chemical Company
KPDES Permit Application

Project No.: 309-1231

Dear Mr. Becker,

Please find enclosed the KPDES permit application forms and figures for AAPER Alcohol and Chemical Company (AAPER) located in Shelbyville, Shelby County, Kentucky. AAPER operates under Standard Industrial Code 2869, NAICS Code 325193, – Industrial Organic Chemicals, Not Elsewhere Classified, and are therefore subject to the Code of Federal Regulations Subchapter N (Part 414) requirement.

AAPER has two outfalls which each discharge to an unnamed tributary of Dry Run, which discharge to Clear Creek. The Clear Creek watershed in Shelby County, river segment 0.0 to 11.0, is listed impaired per the Final 2008 Integrated Report to Congress on the Condition of Water Resources in Kentucky, Volume II. 303(d) List of Surface Waters. Since AAPER is located within this watershed as confirmed with the Division of Water, an individual permit application is being submitted.

Enclosed with this new permit application are the following: KPDES Form 1, Form F, a topographic map, a site plan showing outfall locations, and the storm water analytical results. The application filing fee in the amount of \$200 for a non-process industry is also included with this submittal.

Should there be any questions, please do not hesitate to contact Nicole Galavotti at Shield Environmental Associates, Inc. at (859) 294-5155. Thank you.

Sincerely,

SHIELD ENVIRONMENTAL ASSOCIATES, INC.

Nicole Galavotti, P.E.
Principal/Sr. Environmental Engineer

Amanda L. Burden, E.I.T.
Project Engineer

cc: Paul DiMarco – AAPER Alcohol and Chemical Company
April Rice - AAPER Alcohol and Chemical Company
Bobbi Franke – AAPER Alcohol and Chemical Company
Pat Stallard – Stites and Harbison

RECEIVED

JUN 19 2009

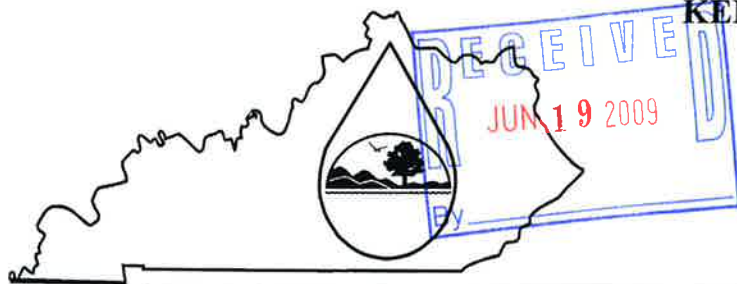
DIVISION OF WATER



948 Floyd Drive
Lexington, KY 40505
Telephone 859.294.5155
Fax 859.294.5255
www.shieldenv.com

KPDES FORM 1

A 2453559



KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT APPLICATION

This is an application to: (check one)

- ☒ Apply for a new permit.
☐ Apply for reissuance of expiring permit.
☐ Apply for a construction permit.
☐ Modify an existing permit.

Give reason for modification under Item II.A.

A complete application consists of this form and one of the following:

Form A, Form B, Form C, Form F, or Form SC

For additional information contact:

KPDES Branch (502) 564-3410

CK 200-

I. FACILITY LOCATION AND CONTACT INFORMATION		AGENCY USE	0107981
A. Name of Business, Municipality, Company, Etc. Requesting Permit AAPER Alcohol and Chemical Company			
B. Facility Name and Location		C. Primary Mailing Address (all facility correspondence will be sent to this address). Include owner's mailing address (if different) in D.	
Facility Location Name: AAPER Alcohol and Chemical Company		Facility Contact Name and Title: Mr. <input type="checkbox"/> Ms. <input checked="" type="checkbox"/> April Rice	
Facility Location Address (i.e. street, road, etc., not P.O. Box): 1101 Isaac Shelby Drive		Mailing Address: 1101 Isaac Shelby Drive	
Facility Location City, State, Zip Code: Shelbyville, KY 40065		Mailing City, State, Zip Code: Shelbyville, KY 40065	
D. Owner's name (if not the same as in part A and C): GreenField Ethanol Inc.		Facility Contact Telephone Number: 502-232-7600	
Owner's Mailing Address: 20 Toronto Street, Suite 1400 Toronto, Ontario, Canada M5C 2B8		Owner's Telephone Number (if different): 1-888-640-9323	

II. FACILITY DESCRIPTION

A. Provide a brief description of activities, products, etc: Repackages pure and denatured ethanol, methanol, xylene and isopropyl alcohol, etc. from bulk quantities to smaller containers.

B. Standard Industrial Classification (SIC) Code and Description

Principal SIC Code & Description:	2869
Other SIC Codes:	

III. FACILITY LOCATION

A. Attach a U.S. Geological Survey 7 1/2 minute quadrangle map for the site. (See instructions)	
B. County where facility is located: Shelby	City where facility is located (if applicable): Shelbyville
C. Body of water receiving discharge: Unnamed tributary to Dry Run	
D. Facility Site Latitude (degrees, minutes, seconds): 38d 12' 13"	Facility Site Longitude (degrees, minutes, seconds): 85d 16' 26"
E. Method used to obtain latitude & longitude (see instructions): Interpolation - map	
F. Facility Dun and Bradstreet Number (DUNS #) (if applicable): 098-101-173	

IV. OWNER/OPERATOR INFORMATION**A. Type of Ownership:**☐ Publicly Owned ☒ Privately Owned ☐ State Owned ☐ Both Public and Private Owned ☐ Federally owned**B. Operator Contact Information (See instructions)**

Name of Treatment Plant Operator:

N/A

Telephone Number:

Operator Mailing Address (Street):

Operator Mailing Address (City, State, Zip Code):

Is the operator also the owner?

Yes ☐ No ☐

Is the operator certified? If yes, list certification class and number below.

Yes ☐ No ☐

Certification Class:

Certification Number:

V. EXISTING ENVIRONMENTAL PERMITS

Current NPDES Number:

Issue Date of Current Permit:

Expiration Date of Current Permit:

Number of Times Permit Reissued:

Date of Original Permit Issuance:

Sludge Disposal Permit Number:

Kentucky DOW Operational Permit #:

Kentucky DSMRE Permit Number(s):

Which of the following additional environmental permit/registration categories will also apply to this facility?

CATEGORY	EXISTING PERMIT WITH NO.	PERMIT NEEDED WITH PLANNED APPLICATION DATE
Air Emission Source		
Solid or Special Waste		
Hazardous Waste - Registration or Permit		

VI. DISCHARGE MONITORING REPORTS (DMRs)

KPDES permit holders are required to submit DMRs to the Division of Water on a regular schedule (as defined by the KPDES permit). Information in this section serves to specifically identify the name and telephone number of the DMR official and the DMR mailing address (if different from the primary mailing address in Section I.C).

A. DMR Official (i.e., the department, office or individual designated as responsible for submitting DMR forms to the Division of Water):

AAPER Alcohol and Chemical Company,
Attn: April Rice

DMR Official Telephone Number:

502-232-7600

B. DMR Mailing Address:

- Address the Division of Water will use to mail DMR forms (if different from mailing address in Section I.C), or
- Contact address if another individual, company, laboratory, etc. completes DMRs for you; e.g., contract laboratory address.

DMR Mailing Name:

AAPER Alcohol and Chemical Company, Attn: April Rice

DMR Mailing Address:

1101 Isaac Shelby Drive

DMR Mailing City, State, Zip Code:

Shelbyville, KY 40065

VII. APPLICATION FILING FEE

KPDES regulations require that a permit applicant pay an application filing fee equal to twenty percent of the permit base fee. Please examine the base and filing fees listed below and in the Form 1 instructions and enclose a check payable to "Kentucky State Treasurer" for the appropriate amount (for permit renewals, please include the KPDES permit number on the check to ensure proper crediting). Descriptions of the base fee amounts are given in the "General Instructions."

Facility Fee Category:

Non-Process Industry

Filing Fee Enclosed:

\$200

VIII. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME AND OFFICIAL TITLE (type or print):

Mr. ☒ Ms. ☐ Paul DiMarco - President

TELEPHONE NUMBER (area code and number):

800-243-5360 X 134

SIGNATURE

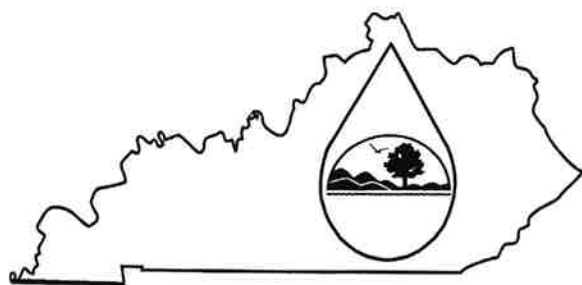


DATE:

6/18/09

Return completed application form and attachments to: **KPDES Branch, Division of Water, Frankfort Office Park, 14 Reilly Road, Frankfort, KY 40601. Direct questions to: KPDES Branch at (502) 564-3410.**

AI# 53559

KPDES FORM F**KENTUCKY POLLUTANT DISCHARGE
ELIMINATION SYSTEM****PERMIT APPLICATION**

A complete application consists of this form and Form 1.
For additional information, Contact KPDES Branch, (502) 564-3410.

I. OUTFALL LOCATION

AGENCY USE

0 / 0 7 9 8 1

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and name the receiving water.

A. Outfall Number	B. Latitude			C. Longitude			D. Receiving Water (name)
001	38	12	13	85	16	35	Unnamed tributary to Dry Run
002	38	12	14	85	16	29	Unnamed tributary to Dry Run

II. IMPROVEMENTS

A. Are you now required by any federal, state, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

1. Identification of Conditions, Agreements, Etc.	2. Affected Outfalls		3. Brief Description of Project	4. Final Compliance Date	
	No.	Source of Discharge		a. req.	b. proj.

B. You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. SITE DRAINAGE MAP

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfall(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage or disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which receive storm water discharges from the facility.

IV. NARRATIVE DESCRIPTION OF POLLUTANT SOURCES

A. For each outfall, provide an estimate of the area (include units) of impervious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)
001	24,853 square feet	107,701 square feet	002	18,781 square feet	33,621 square feet

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas; and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.


Currently AAPER has the following materials exposed to storm water, an open top cardboard dumpster, used pallets, and aboveground storage tanks and piping containing methanol, ethanol, and isopropyl alcohol.

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table F-1

V. NON-STORM WATER DISCHARGES

A. I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of non-storm water discharges, and that all non-storm water discharges from these outfall(s) are identified in either an accompanying Form C or Form SC application for the outfall.

Name and Official Title (type or print)	Signature	Date Signed
Paul DiMarco - President		6/18/09

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

N/A

VI. SIGNIFICANT LEAKS OR SPILLS

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

N/A

VII. DISCHARGE INFORMATION

A,B,C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided. Tables F-1, F-2, and F-3 are included on separate pages.

E: Potential discharges not covered by analysis - is any toxic pollutant listed in Table F-2, F-3, or F-4, a substance which you currently use or manufacture as an intermediate or final product or by product.

☒ Yes (list all such pollutants below) ☐ No (go to Section IX)

Oil and Grease - attached analytical

Zinc - see attached analytical

Toluene - see attached analytical

Xylene - see attached analytical

VIII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ Yes (list all such results below) ☒ No (go to Section IX)

IX. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in item VII performed by a contract laboratory or consulting firm?

☒ Yes (list the name, address and telephone number of, and pollutants analyzed by each such laboratory or firm below; use additional sheets if necessary).

☐ No (go to Section IX)

A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
Fouser Environmental Services	165 Camden Avenue Versailles, KY 40383	859-873-6211	Oil and Grease, Biological Oxygen Demand (BOD5), Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), Total Kjeldahl Nitrogen, Nitrate plus Nitrite Nitrogen, Total Phosphorus, and Zinc
Environmental Science Corp.	12065 Lebanon Road Nashville, TN 37122	800-767-5859	Toluene and Total Xylenes

X. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

NAME & OFFICIAL TITLE (type or print)

AREA CODE AND PHONE NO.

Mr. ☒ Ms. ☐ Paul DiMarco - President

800-243-5360 X 134

SIGNATURE

DATE SIGNED



6/18/09

VII. DISCHARGE INFORMATION	OUTFALL NO: 001
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OUTFALL NO: 001

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During 1 st 20 Minutes	Flow-weighted Composite	Grab Sample Taken During 1 st 20 Minutes	Flow-weighted Composite		
Oil and Grease	<2.00 mg/L	N/A			1	
Biological Oxygen Demand BOD ₅	4 mg/L				1	
Chemical Oxygen Demand (COD)	<10 mg/L				1	
Total Suspended Solids (TSS)	12 mg/L				1	
Total Kjeldahl Nitrogen	43.1 mg/L				1	
Nitrate plus Nitrite Nitrogen	<0.75 mg/L				1	
Total Phosphorus	0.11 mg/L				1	
pH	Minimum 6.82 S.U.	Maximum	Minimum	Maximum	1	

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's KPDES permit for its process wastewater (if the facility is operating under an existing KPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

[illegible]

Part C - List each pollutant shown in Tables F-2, F-3, and F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

[illegible]

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow-weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gal/min or specify units)	6. Total flow from rain event (gallons or specify units)
7. Provide a description of the method of flow measurement or estimate.					

OUTFALL NO: 002

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During 1 st 20 Minutes	Flow-weighted Composite	Grab Sample Taken During 1 st 20 Minutes	Flow-weighted Composite		
Oil and Grease	<2.00 mg/L	N/A			1	
Biological Oxygen Demand BOD ₅	<3 mg/L				1	
Chemical Oxygen Demand (COD)	<10 mg/L				1	
Total Suspended Solids (TSS)	22 mg/L				1	
Total Kjeldahl Nitrogen	8.05 mg/L				1	
Nitrate plus Nitrite Nitrogen	<0.75 mg/L				1	
Total Phosphorus	<0.66 mg/L				1	
pH	Minimum 7.88 SU	Maximum	Minimum	Maximum	1	

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's KPDES permit for its process wastewater (if the facility is operating under an existing KPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

[illegible]

Part C - List each pollutant shown in Tables F-2, F-3, and F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

[illegible]

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow-weighted composite sample.									
---------------------------------------------------------------------------------------------------------------------------	--	--	--	--	--	--	--	--	--

1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gal/min or specify units)	6. Total flow from rain event (gallons or specify units)

7. Provide a description of the method of flow measurement or estimate.



SOURCE: USGS 7.5' TOPOGRAPHIC QUADRANGLE MAP
SIMPSONVILLE, KY 1960, PHOTOREVISED 1978

0' 1000' 2000' 3000'

APRIL 2009

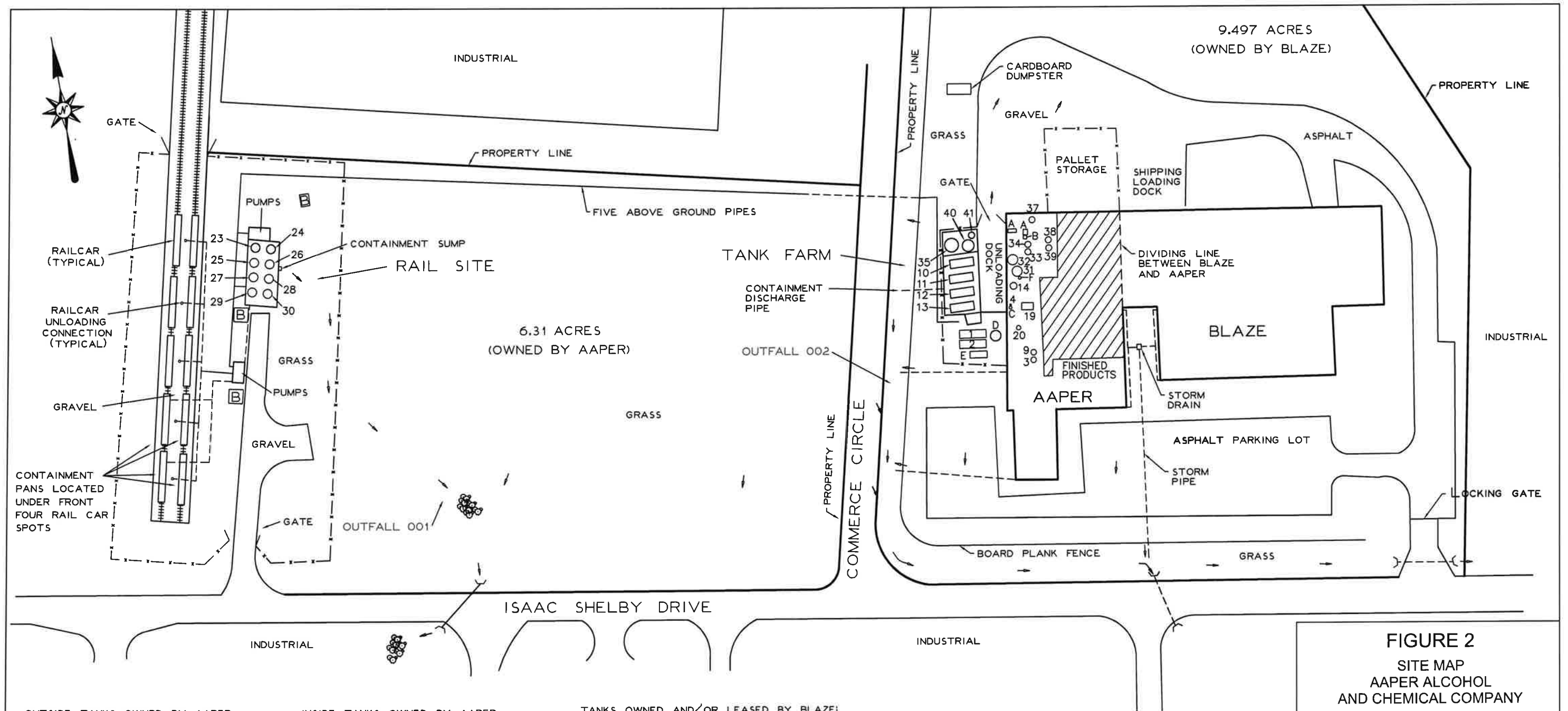
PROJECT NO: 309-1231
DRAWN BY: ALB
APPROVED BY: NRG

FIGURE 1

TOPOGRAPHIC MAP
AAPER ALCOHOL AND CHEMICAL COMPANY
1101 ISAAC SHELBY DRIVE
SHELBYVILLE, KY



948 Floyd Drive
Lexington, KY 40505
(859) 294-5155



OUTSIDE TANKS OWNED BY AAPER

ID	SIZE/CONTENTS
11	15,000 GAL. ETHANOL/METHANOL/IPA
12	15,000 GAL. ISOPROPYL ALCOHOL
13	15,000 GAL. METHANOL
23	20,000 GAL. ETHANOL
24	20,000 GAL. ETHANOL
25	20,000 GAL. ETHANOL
26	20,000 GAL. ISOPROPYL ALCOHOL (IPA)
29	20,000 GAL. ETHANOL
30	20,000 GAL. ETHANOL
35	10,000 GAL. ETHANOL
40	8,000 GAL. ORGANIC ALCOHOL
41	5,100 GAL. ETHANOL SPECIALLY DENATURED W/ NICOTINE SLURRY
D	DEIONIZED WATER

INSIDE TANKS OWNED BY AAPER

ID	SIZE/CONTENTS
3	1,000 GAL. MIXING TANK-VARIOUS
4	210 GAL. BRUCINE SULFATE SLURRY
9	1,000 GAL. MIXING TANK-VARIOUS
20	850 GAL. 38F-8 SLURRY
33	2,500 GAL. BRUCINE SULFATE
34	2,500 GAL. TETRABUTYL ALCOHOL
37	3,650 GAL. ETHANOL/METHANOL/IPA
38	2,200 GAL. ETHANOL B-14/METHANOL
39	2,200 GAL. SOLVENTS BY ORDER
A	(12) 55 GAL. DRUMS OF OILS
B	(2) 270 GAL. TOTES OF TOLUENE
C	400 GAL. AFFF ALCOHOL TYPE FOAM

NOTE: TANKS A-F ARE GENERICALLY LABELED ONLY FOR CLARITY OF THIS DRAWING.

TANKS OWNED AND/OR LEASED BY BLAZE

ID	SIZE/CONTENTS
10	15,000 GAL. ETHANOL
27	20,000 GAL. METHANOL
28	20,000 GAL. METHANOL
E	ABANDONED/EMPTY SPILL TANK
2	12,000 GAL. METHANOL UST
1	12,000 GAL. DIETHYLENE GLYCOL UST
32	7,000 GAL.
31	7,000 GAL.
F	200 GAL CONCENTRATE
14	2,000 GAL.
19	3,000 GAL.

LEGEND:

- STORM WATER RUNOFF DIRECTION
- #### RAILROAD SPUR
- - - CHAIN LINK FENCE
- - - UNDERGROUND PIPE
- /// SEE MATERIAL INVENTORY LIST FOR MATERIALS STORED IN THIS AREA IN CONTAINERS 55 GALLONS OR SMALLER.
- [B] SMALL STORAGE BUILDING
-) STORM WATER HEADWALL/CULVERT



FIGURE 2
SITE MAP
AAPER ALCOHOL
AND CHEMICAL COMPANY
1101 ISAAC SHELBY DRIVE
SHELBYVILLE, KY

APRIL 2009

PROJECT NO.: 309-1231
DRAWN BY: AB
APPROVED BY: NG



948 Floyd Drive
Lexington, KY 40505
(859) 294-5155

FES FOUSSER ENVIRONMENTAL SERVICES

165 Camden Avenue, Versailles, Ky. 40383 Phone: 859-873-6211 Fax: 859-873-3715 e-mail: lab@fousser.com

LABORATORY/CONSULTING

Certificate of Analysis

Shield Environmental Wastewater Division
Mrs. Debbie Howard
948 Floyd Drive
Lexington, KY 40505

Project: AAPER
Entered By: Lynn Ellis
Date Reported: 6/9/2009
Date Received: 5/28/2009
Date Complete: 6/9/2009

Sample Number: 902411-01
Sample ID: Rail Site
Description: 5/28/09 12:00

Date Sampled: 5/28/2009
Sampler: Client
Preservation: Cool 4°C, H2SO4, pH < 2

Test	Method	Result	Units	Date	Analyst
Stormwater					
BOD, 5 Day	SM 5210 B	4	mg/L	6/3/2009	KM
COD	EPA 410.4	<10	mg/L	6/1/2009	KM
Phosphorus, Total	SM 4500-P E	0.11	mg/L	6/9/2009	KM
Total Suspended Solids	SM 2540 D	12	mg/L	5/29/2009	KM
Oil & Grease, T	EPA 1664A	<2.00	mg/L	6/1/2009	CT
Nitrate-N	EPA 300.0	<0.50	mg/L	5/29/2009	EW
Nitrite-N	EPA 300.0	<0.25	mg/L	5/29/2009	EW
TKN	SM 4500-NH3 C	43.1	mg/L	6/5/2009	KM

Approved By: _____

Cody Brenneman

FES FOUSSER ENVIRONMENTAL SERVICES

165 Camden Avenue, Versailles, Ky. 40383 Phone: 859-873-6211 Fax: 859-873-3715 e-mail: lab@fousser.com

LABORATORY/CONSULTING

Certificate of Analysis

Shield Environmental Wastewater Division
Mrs. Debbie Howard
948 Floyd Drive
Lexington, KY 40505

Project: AAPER
Entered By: Lynn Ellis
Date Reported: 6/8/2009
Date Received: 5/28/2009
Date Complete:

Sample No.	Sample ID	Method	Result	Units	Date	Analyst
BOD, 5 Day						
902412-01	Tank Farm	SM 5210 B	<3	mg/L	6/3/2009	KM
COD						
902412-01	Tank Farm	EPA 410.4	<10	mg/L	6/1/2009	KM
Phosphorus, Total						
902412-01	Tank Farm	SM 4500-P E	<0.66	mg/L	6/5/2009	KM
Total Suspended Solids						
902412-01	Tank Farm	SM 2540 D	22	mg/L	5/29/2009	KM
Oil & Grease, T						
902412-01	Tank Farm	EPA 1664A	<2.00	mg/L	6/1/2009	CT
Nitrate-N						
902412-01	Tank Farm	EPA 300.0	<0.50	mg/L	5/29/2009	EW
Nitrite-N						
902412-01	Tank Farm	EPA 300.0	<0.25	mg/L	5/29/2009	EW
TKN						
902412-01	Tank Farm	SM 4500-NH3 C	8.05	mg/L	6/5/2009	KM

Approved By: _____



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Debbie Howard
Shield Env. - Lexington, KY
948 Floyd Drive

Lexington, KY 40505

Report Summary

Monday June 01, 2009

Report Number: L405050

Samples Received: 05/30/09

Client Project: 309-1231

Description: AAPER - Stormwater

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:


Mark W. Beasley, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375, DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

This report may not be reproduced, except in full, without written approval from Environmental Science Corp.
Where applicable, sampling conducted by ESC is performed per guidance provided
in laboratory standard operating procedures: 060302, 060303, and 060304.

2 Samples Reported: 06/01/09 14:28 Printed: 06/01/09 16:17

Page 1 of 3



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Debbie Howard
Shield Env. - Lexington, KY
948 Floyd Drive
Lexington, KY 40505

June 01, 2009

Date Received : May 30, 2009
Description : AAPER - Stormwater

ESC Sample # : L405050-01

Sample ID : RAIL SITE 001

Site ID :

Collected By : Amanda Burden
Collection Date : 05/28/09 12:00

Project # : 309-1231

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Toluene	BDL	0.0050	mg/l	8260B	05/31/09	1
Total Xylenes	BDL	0.0030	mg/l	8260B	05/31/09	1
Surrogate Recovery						
Toluene-d8	98.7		% Rec.	8260B	05/31/09	1
Dibromofluoromethane	97.7		% Rec.	8260B	05/31/09	1
a,a,a-Trifluorotoluene	103.		% Rec.	8260B	05/31/09	1
4-Bromofluorobenzene	100.		% Rec.	8260B	05/31/09	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 06/01/09 14:28 Printed: 06/01/09 16:17



ENVIRONMENTAL
SCIENCE CORP.

12065 Lebanon Rd.
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Est. 1970

REPORT OF ANALYSIS

Debbie Howard
Shield Env. - Lexington, KY
948 Floyd Drive
Lexington, KY 40505

June 01, 2009

Date Received : May 30, 2009
Description : AAPER - Stormwater
Sample ID : TANK FARM 002
Collected By : Amanda Burden
Collection Date : 05/28/09 11:50

ESC Sample # : L405050-02

Site ID :

Project # : 309-1231

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Toluene	BDL	0.0050	mg/l	8260B	05/31/09	1
Total Xylenes	BDL	0.0030	mg/l	8260B	05/31/09	1
Surrogate Recovery						
Toluene-d8	98.3		% Rec.	8260B	05/31/09	1
Dibromofluoromethane	99.5		% Rec.	8260B	05/31/09	1
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	05/31/09	1
4-Bromofluorobenzene	97.8		% Rec.	8260B	05/31/09	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 06/01/09 14:28 Printed: 06/01/09 16:17

Summary of Remarks For Samples Printed
06/01/09 at 16:17:30

TSR Signing Reports: 134
R5 - Desired TAT

No "E's" Send 2ltrs for PAH. ln 12/13/01

Sample: L405050-01 Account: SHIELDKY Received: 05/30/09 09:00 Due Date: 06/04/09 00:00 RPT Date: 06/01/09 14:28
V8260BTEX targets=Toluene, Xylenes
Sample: L405050-02 Account: SHIELDKY Received: 05/30/09 09:00 Due Date: 06/04/09 00:00 RPT Date: 06/01/09 14:28
V8260BTEX targets=Toluene, Xylenes



948 Floyd Drive
Lexington, KY 40509
Phone: (859) 294-5155 • Fax: (859) 294-5255

Chain of Custody Record

3488

Project Name AAPER Report To DEBBIE HOWARD E-Mail Address DEBBIE-HOWARD@ES-HELEMAN.COM

Samplers: Print Name <u>Amanda Burden</u>		Signature <u>Amanda A. Burden</u>		ANALYSIS															
SAMPLE ID	SAMPLE LOCATION <u>TANK FARM</u>	Composite	Grab	Date <u>5/28/09</u>	Time <u>11:50 AM</u>	Sample Type				No. of Containers	ANALYSIS								
						Water	Liquid	Solid	Other		DISSOLVED	CD	PHOSPHORUS	TKN	ZINC				
			X	5/28/09	11:50 AM	X				1	X								PLASTIC JUG
										1	X								ALUMINUM CANS/JUGS WITH 1/2504
										1	X								PLASTIC JUG - 237 ML
										1									500ML PLASTIC W/ 1/2504
										1									THIN PLASTIC CONTAINER

COMMENTS: Plt 7.88

Relinquished by (Signature) <u>Amanda A. Burden</u>	Received by (Signature) <u>David McLean</u>	Date <u>5/28/09</u>	Time <u>16:20</u>
Relinquished by (Signature) <u>David McLean</u>	Received by (Signature) <u>Raj Jaram</u>	Date <u>5/28/09</u>	Time <u>16:40</u>
Dispatched by (Signature) <u>David McLean</u>	Received for Laboratory by:	Date	Time
Method of Shipment and Tracking No.		Date	Time

Chain of Custody Record

3491

948 Floyd Drive

Lexington, KY 40509

Phone: (859) 294-5155 • Fax: (859) 294-5255

Project Name AAPER

Report To Debbie Howard

E-Mail Address debbie-howard@sy.iedm.ccom

[illegible]

COMMENTS: pH: 6.82

Relinquished by: (Signature) <i>Amrik Singh Baidam</i>	Received by: (Signature) <i>Devi Mehta</i>	Date 5-28-09	Time 16:20
Relinquished by: (Signature) <i>Rand Mehta</i>	Received by: (Signature) <i>Devi Mehta</i>	Date 5-28-09	Time 1640
Dispatched by: (Signature)	Received for Laboratory by:	Date	Time
Method of Shipment and Tracking No.			

[illegible]